

PGE Renewable Development Fund

2023 Solar plus storage resource and application requirements

The PGE Renewable Development Fund (RDF) provides financial support for local renewable energy projects using a portion of the money that PGE Green FutureSM customers pay for renewable energy. The RDF offers competitive funding awards to applicants looking to deploy their own clean energy projects.

Please review the information on energy storage projects below and consult with your Solar Trade Ally to ensure the success of your renewable energy project. Please contact RenewableDevFund@pgn.com for any grant related questions. To learn more about Solar Trade Allies read more on the Energy Trust of Oregon's website [Choosing a Solar Contractor - Energy Trust of Oregon.](#)

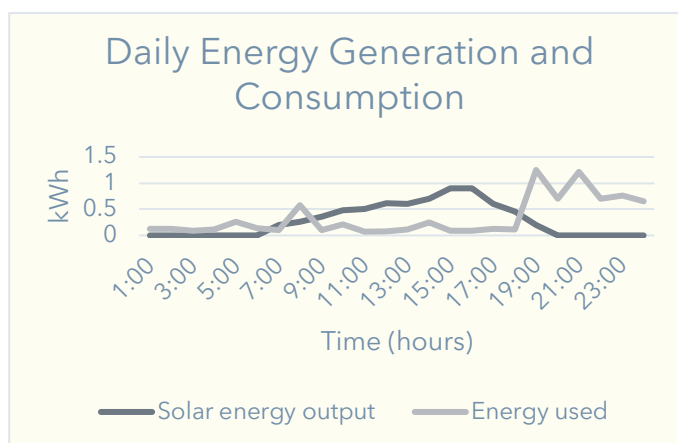
Requirements and Guidelines

What changes are being made to the Renewable Development Fund?

For the first time this year, RDF projects can incorporate energy storage. Combining battery storage with solar power offers more consistent energy and makes projects more resilient to potential outages, regardless of the weather or time of day. As you begin brainstorming or designing projects for your application, we encourage you to consider incorporating battery storage into your plans.

Why is PGE making this change?

PGE and our Green Future customers believe renewable energy projects hosted by communities are an important part of the transition to a clean energy future. Many solar customers don't realize a large portion of their energy demand comes from their after-work activities, -- which can no longer be met by solar when the sun has set. This peak demand event must be met by a diverse



array of energy resources, which often includes carbon emitting energy resources. Including a storage component allows the use of clean energy during more hours of the day and increases resiliency during extreme weather events, which are increasingly frequent in our changing climate.



Who will this change effect?

Projects hosted by government or for-profit entities will be required to include energy storage in their solar project. Projects hosted by nonprofits that serve as multifamily housing or community centers will also be required to include energy storage in their solar project. All other projects hosted by nonprofits are encouraged to include energy storage in their solar project.

What considerations should I make when I start thinking about my battery component?

Start thinking about your usage and essential devices to help determine capacity requirements for your battery component:

- Determine critical load - watts required to power essential devices in an outage
- Determine battery capacity - aim for 20% above the critical load
- Review your energy usage over time (hours, days, weeks, and the entire year)
- Obtain an estimate of how much energy the solar project will generate
- Consider what purpose the battery will serve

Your ETO Solar Trade Ally will also be a great partner as you explore energy storage for your project.

How do I calculate my critical load?

To calculate your critical load, start by identifying essential devices and their power consumption (in watts) and then estimate the amount of time (in hours) that the essential device will need to be powered during an outage. Then multiply the power consumption by the estimated time to obtain the total energy required (in watt-hours).

Example: *When I determined my critical load, I thought through what appliances I'd need during an outage and made a list. I thought it'd be nice to be able to cook, store my food and run my AC unit. After I made my list, I looked up watt usage for all my appliances and considered how many hours I'd need to run everything. If possible, I'd like to be able to run everything off my battery for a couple of days, but a few hours would still give me some options in an outage.*

- AC unit -- 900 watts
- Refrigerator - 1200 watts
- 2 x Lights - 200 watts
- Stove -- 1,200 watts
- Computer - 70 watts

My critical load is 3,570 Watts in total or 3.57 kW. If I wished to run my essential devices for 4 hours (3.57 kW x 4 hours) I would require 14.28 kWh energy. I will follow up with my Solar Trade Ally to assess what my options are, based on the energy my solar setup will be able to generate.

Where can I find additional information about programs for funding energy storage?

Oregon Department of Energy and Energy Trust of Oregon are good resources for learning about additional incentives or funding opportunities for energy storage. Depending on how you intend to use your energy storage, there may be additional PGE programs that further your sustainability goals and support PGE's clean energy goals. Reach out to RenewableDevFund@pge.com to learn more.

